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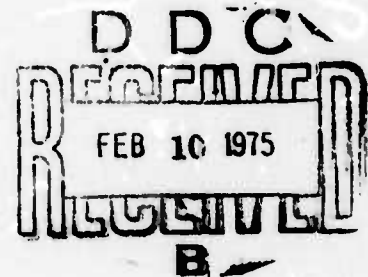
QUARTERLY TECHNICAL REPORT

October - December 1974

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QUARTERLY TECHNICAL REPORT  
OCTOBER - DECEMBER, 1974

Summary

Collection and abstracting of current Soviet material was continued in this quarter on the topics of laser technology, oceanography, seismology, energy conversion, and climatology. Collection of recent material on radio-active radiation detection was completed, and a survey report on surface effect vehicles is nearing completion. A retroactive search on selected Soviet authors and institutes was completed.

QUARTERLY TECHNICAL REPORT  
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General Program Objectives

The purpose of this contract is to provide search and exploitation of Soviet bloc publications, dealing with a list of technical subjects of interest to DARPA and NISC. Following selection of pertinent material, it is to be reported in forms ranging from bibliographic lists to analytical studies, depending on topic importance and sponsor interest. Our coverage for October-December 1974 has been as follows:

1. Laser Technology - Laser Bibliography No. 16 for the second quarter of 1974 was published. The fourth collection of abstracts on Effects of High Power Lasers was published in October.

Cost estimates for converting the Laser Bibliographies to machine readable form were submitted to the monitor. Costs for both on-line and batch processing were included.

2. Seismology - Collection and abstracting of pertinent articles on seismology was continued. Publication is planned pending a sufficient accumulation of material.

3. Oceanography - Collection and abstracting of material pertinent to internal wave generation and detection is continuing. The third report in this series is now being compiled.

Owing to interest generated by an invited paper by Mr. Lee Boylan on Soviet underwater activities, arrangements are being made for publication of this work jointly by Informatics and the Undersea Medical Society, per recommendation of ONR and Submarine Development Group 1.

4. Energy Technology - Work continued on a survey report of world-wide developments in geothermal conversion. Material on other types of conversion is being collected but no further exploitation is planned at present.

5. Optional Topics -

- a. Radiation Detection - Per NISC request, a bibliography of material on radiation detection covering the last several years was compiled. This list will be completed and published early in 1975.

b. Surface Effect Vehicles - A survey report on Soviet surface effect vehicles is near completion and should be published early in 1975.

c. Geomagnetic Pulsations - Articles on micropulsations and hydromagnetics continue to be abstracted, and will be published when a suitable volume of material is collected.

d. LASL Search - A retrosearch of articles by a selected list of Soviet authors and from five institutes was completed. Arrangements are under way to put both of these in machine-readable form for the LASL requestor.

e. Climatology - The third report on Soviet climatology and climate modification studies is near completion and should be published in early 1975.

6. Monthly Newsletter - Items of potential R&D interest, but not necessarily covered in the assigned topics, are being collected for monthly publication in a newsletter format. The first issue has been compiled and will be published in January, 1975.

7. Translations - One brief translation was made per DARPA request on level variations of the Caspian Sea.